

IHS EIATRACK Environmental Intelligence Analysis

Electrical and Electronic Product Regulatory Compliance



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환경호르몬,
비스페놀 A 를 아세요?

비스페놀A는 무엇인가요?

낮은 농도에도
독성이 있어요!

플라스틱을 만들 때 쓰이는 **비스페놀A**는 **환경호르몬**입니다.
불임, 유방암, 성 조숙증, 신생아 기형 같은 생식기능에 장애를 일으킵니다.
또한 **당뇨, 비만, 지능, 행동장애** 등에도 영향을 주는 무서운 유해물질입니다.

비스페놀A는 어디에 들어있나요?



젖병, 플라스틱 장난감, 통조림, 음료수 캔, 영수증 등
일상생활 곳곳에 **비스페놀A**가 들어있습니다.
6세 이상 미국인 93%의 소변에서,
국내 초등학교 급식에 사용되는 통조림의 86% 에서 검출!

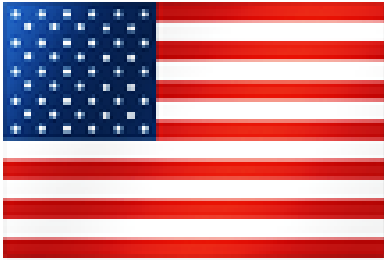


EU 고위험성 우려물질 사용금지 발효(EIATRACK)

*EU는 2014년 8월부터 프탈레이트등 고위험성 우려물질 2가지에 대하여 사용을 금지하는 법안을 발효.

*노르웨이 특정 화학물질 사용제한(2013)

*섬유제품의 노닐페놀(nonylphenol) 사용제한(수생태계에 미치는 악영향 및 내분비계교란 특성) 위 규제안에 관하여 2014년 말 규제초안을 발표할 계획.



미국

배터리 충전기 및 외부전력공급장치(EPS, External Power Supplies)의 에너지 효율 기준을 입법예고하였으며, 동 기준은 법률로써 효력을 얻을 경우 2013년 7월부터 미국에서 제조 혹은 미국으로 수입되는 관련 제품에 적용될 예정.



캐나다

장난감에 프탈레이트 사용금지(목욕제품, 이로 무는 장난감, 유아동 제품등)



국부(國富) 좌우할 기후변화 대응(헤럴드경제 2013,6)

기후변화는 환경문제에서 출발했다. 그러나 각국의 경제문제와 맞물리면서 국제사회의 핵심 의제로 떠올랐다.

기후변화 특히 지구 온난화로 인한 피해를 최소화하기 위해 환경 규제가 생겼고, 이에 따라 세계 경제시스템이 바뀌고 있다. 특히 선진국의 강도 높은 규제는 우리 **수출**전선에 먹구름을 끼게 했다.

환경규제는 유럽연합(EU)을 중심으로 시행되고 있다. 유해물질사용제한지침(RoHS), 전기·**전자제품 폐기물처리**지침(WEEE), **에너지** 사용제품의 **친환경** 설계지침(EuP), 신화학물질관리정책(**REACH**), 폐자동차처리지침(ELV) 등이 있다.

이런 환경규제는 이미 환경문제에서 경쟁력을 확보한 선진국이 자국의 산업을 보호한다는 측면이 있어, **비관세무역장벽 역할을 한다.**



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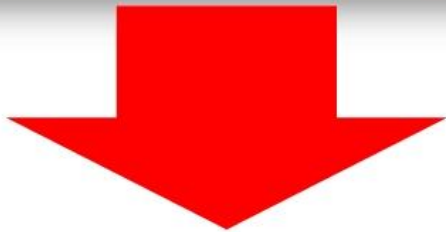
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환경 관련 규정들의 급속한 증가

- 환경 관련 규정의 증가
- 환경 관련 규정으로 잘 알려진

RoHS, REACH, WEEE는 빙산의 일각

- RoHS Repeats (China, Calif., etc.)
- BPA(Bisphenol A:비스페놀A) - free
- DEHP(Phthalate:프탈레이트) – free
- Dodd-Frank (미금융개혁법)
: 분쟁지역 광석에 대한 채굴권



New Design Requirements,
Supply Chain Requirements,
Risks & Costs

EIATRACK Issue Covered

✓ Asia/Pacific Region **10 Regions**

Australia, China, Hong Kong, India, Japan, New Zealand, Republic of Korea, Taiwan, Thailand, Vietnam

✓ Europe **36 Regions**

Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, European Union, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Malta, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, UK, Ukraine

✓ North America **2 Regions**

Canada, USA



✓ Latin America **8 Regions**

Argentina, Brazil, Chile, Colombia, Costa Rica, Ecuador, Mexico, Peru

✓ Middle East and Africa **2 Regions**

Israel, Saudi Arabia



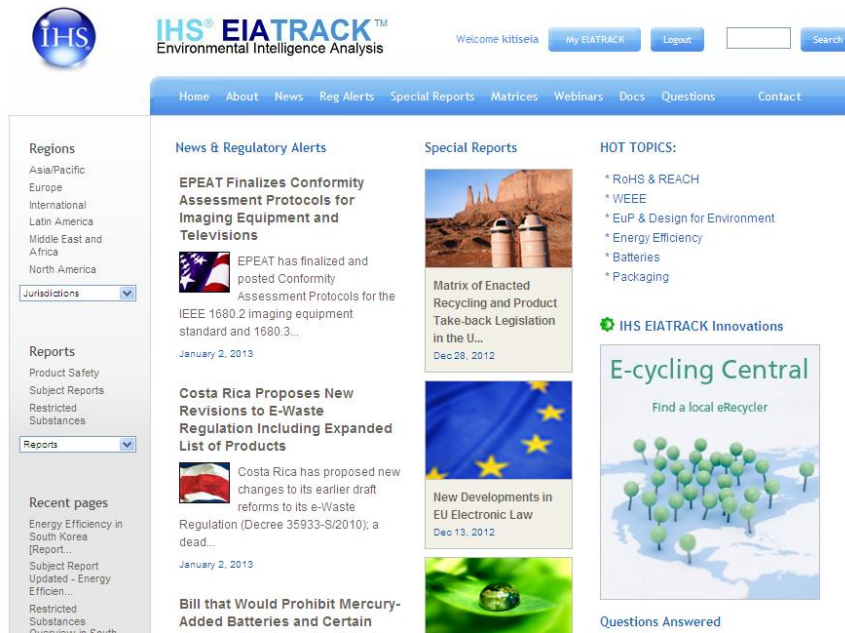
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- 전기/전자 산업 분야의
환경규정/법률 정보 서비스**

- 전 세계 58개 국 123개 지역의 최신의 환경 규정



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- ✓ Electronics
- ✓ Semiconductors
- ✓ Microchips
- ✓ Telecommunications equipment
- ✓ Plastics
- ✓ Medical devices
- ✓ Home appliances
- ✓ Electronic waste recyclers
- ✓ Battery manufacturers
- ✓ Chemical manufacturers
- ✓ Mechanical equipment



EIATRACK Issue Covered

- ✓ RoHS & REACH
- ✓ WEEE
- ✓ Eup & Design for Environment
- ✓ Energy Efficiency



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✓ RoHS & REACH

RoHS(Restriction of use of Hazardous Substances in EEE; 전기전자제품에 유해물질 사용제한 지침)

- 전기전자제품에 납, 카드뮴, 수은, 크롬 및 난연제(PBBs, PBDEs)와 같은 유해물질을 제한하는 유해물질 사용 제한 지침



REACH(Registration, Evaluation and Authorization of Chemicals: 신 화학물질 관리제도)

- EU의 화학 물질 관리에 기본이 되는 법령(1톤 이상 제조, 수입되는 모든 물질)
- 등록, 평가, 허가, 제한
- 15편 141개 조항 및 17개 부속서, 22개 지침



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EIATRACK Issue Covered

✓ WEEE (Waste Electrical and Electronic Equipment)

- 폐가전제품의 의무재활용에 관한 규제
- 폐전기 전자제품의 재활용 비용을 생산자가 부담하는 제도
- 2016 45%, 2019 65%



✓ EuP(EcoDesign Requirements for Energy using Products: 에너지 사용제품의 친환경 설계 규정)

- EuP는 에너지를 사용하는 제품의 친환경 설계 의무화를 내용으로 하는 EU의 규제
- 2008년부터 적용
- 에너지를 사용하는 제품을 생산할 때 지켜야 할 지침



EIATRACK Issue Covered

✓ Energy Efficiency

- 재생에너지 및 에너지 이용 효율과 관련한 협약

Batteries

- Nickel cadmium battery와 같은 부품은 수명이 다한 제품의 부품중에서도 특별한 관리가 필요

Packaging & labeling : 각종 전자제품의 포장과 관련된 규격 및 규제 정보





HOT TOPICS: • RoHS & REACH • WEEE • EuP & Design for Environment • Energy Efficiency • Batteries • Packaging

Why EIATRACK?

- Overview
- Who is it for?
- Global experts



USA
RoHS
Europe
REACH
Asia/Pacific
Packaging
Cadmium
Energy Efficiency
Batteries
Design for Environment
WEEE

IHS EIATRACK Innovations



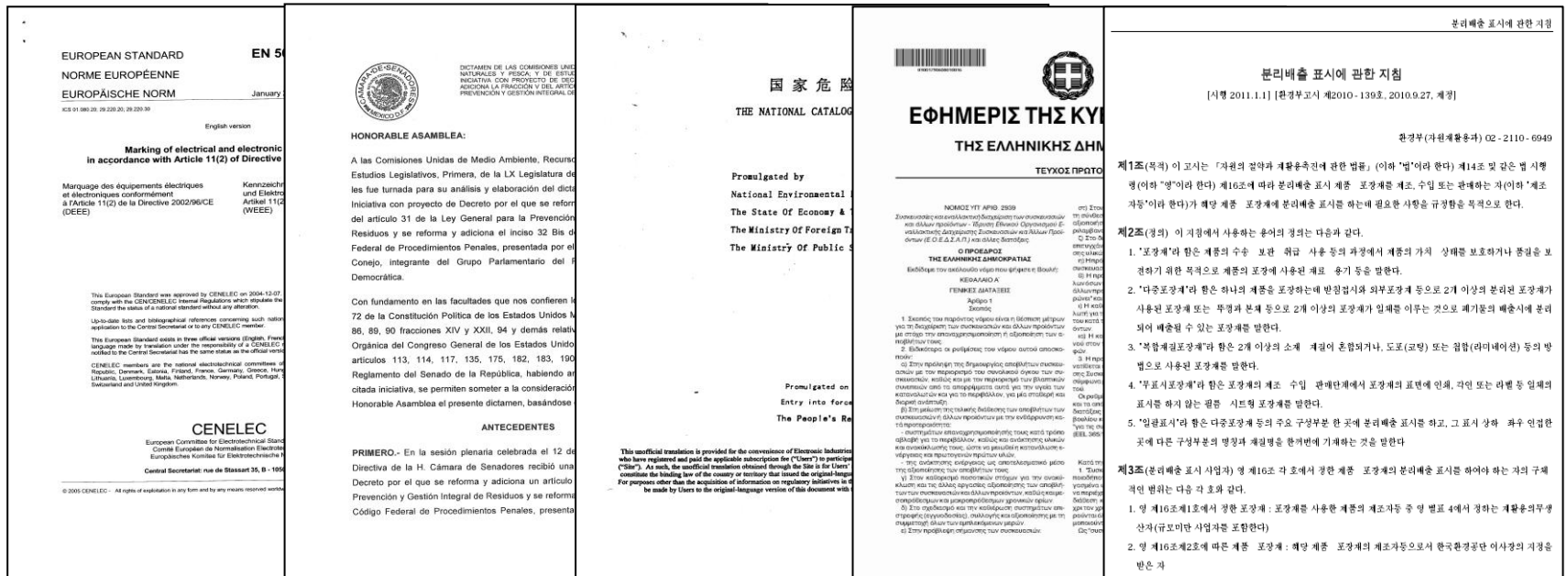
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✓ Original Document

- 규정의 원문 및 영어 번역 버전 제공
- 초안, 법안, 법규, 규정, 규격과 다양한 정보들을 포함한 9,000개 이상의 문서 제공



✓ Matrix Reports

- 개정된 규정에 대한 최신의 update 정보 제공

IHS EIATRACK Matrix - USA End of Life Bills


Matrix of Pending Recycling and Product Take-back Legislation in the USA


Upon publication of this matrix Maryland HB879 had passed both chambers; on May 2nd the Governor enacted it into law. HI SB2822 which was rewritten to call for the formation of a task force within the Department of Health, was enacted on April 27th. The task force is to make recommendations for a workable recycling program for electronic devices in Hawaii, and submit a report to the legislature prior to the commencement of the 2013 legislative session.


Louisiana introduced Senate Resolution 83 which calls for the Department of Environmental Quality to study the establishment of a recycling and collection system for electronic waste, and report its findings to the legislature.

Bills in Nebraska, Oregon, Washington and West Virginia will not receive further consideration this year.

The Matrix can be viewed by clicking on the link below.


Enacted (1)
 Enacted Legislation is Highlighted in green


New (5)
 New Text and New Bills Are Highlighted in yellow


Dead (14)
 Dead Bills Are Highlighted in red

[Return to Matrices](#)

Last Updated: **May 8, 2012**
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Jurisdiction: (all)

[Export](#)
[Refresh](#)

Status	Substance	Jurisdiction	Date(s)	Legislation	Summary	Scope	Materials Restrictions (RoHS-like)	IHS EIATRACK Comment
Pending		Arizona	Relevant Date: Registration would begin January 1, 2013. Session Dates (Approximate): 1/9/2012 - 4/17/2012.	HB 2289 (Farley-D) View Web Link Type of Legislation: E-Recycling	Registration & Financing/Key Program Elements: <ul style="list-style-type: none"> Annual registration, amount to be determined via Rules. Manufacturer-run program. Convenience provisions; at least 1 collection site in every county and every city with a population of 50 thousand persons; May charge for premium services only. May utilize joint collective programs. Rulemaking: Calls for promulgation of rules.	Computer monitors, desktop computers, portable computers, TVs with viewable areas greater than 4 inches (household or business use). Exemptions: Telephones and PDAs with screens less than 4 inches; Devices that are part of a motor vehicle, larger piece of industrial, commercial, medical equipment, select appliances.	N/A	Prospects: Introduced January 11, 2012; Read for a second time on January 18, 2012.
Pending		California	Relevant Dates: N/A. Session Dates (Approximate): 1/4/2012 - 8/31/2012.	AB 549 (Carter-D) View Web Link Type of Legislation: E-Recycling Amendment to existing law	Registration & Financing/Key Program Elements: CalRecycle will review documentation collected by covered collectors and recyclers to verify that a device was used in the state and may refuse to issue a reimbursement. Rulemaking: N/A	CalRecycle will only reimburse covered collectors and recyclers for devices that were used in the state. Exemptions: N/A	N/A	Prospects: 03/13/2012 In committee: Set, first hearing. Hearing canceled at the request of author.
Dead		Georgia		HB 657	Desktop computers, laptop computers, computer		N/A	



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✓ Regulatory Alerts

- 최신의 제정된 법률들과 규정을 구독자의 E-mail로 알림 기능 제공
- 제공된 규정 정보를 Link를 통해 바로 열람 가능
- 연관 규정 정보 함께 제공

Instant Regulatory Alert
January 8, 2014

EPA to Amend Notice and Reporting Requirements for CRT Exporters in February

EPA announced on January 7 that it plans to finalize requirements of the CRT Rule next month.

January 8, 2014

[read full alert at http://www.eiattrack.org/r/3658](http://www.eiattrack.org/r/3658)

EPA to Amend Notice and Reporting Requirements for CRT Exporters in February

Published January 8, 2014

USA - Federal - Hazardous Waste, Transboundary Waste Shipments

EPA announced on January 7 that it plans to finalize revisions to the export requirements of the CRT Rule next month.

Proposed revisions, announced in March 2012, aimed to "allow the Agency to better track exports of CRTs for reuse and recycling" and to "gather more information in shipments of CRTs that are sent for reuse." This week's announcement was part of the Agency's Fall 2013 Regulatory Agenda, much of which is only available on the Reginfo.gov website.

Illegal exports of e-waste, particularly CRT monitors, have lately been an enforcement focus of EPA. Last summer, criminal convictions involving illegal exports of over 100,000 CRTs resulted in a \$4.5 million fine and federal jail time. (Please refer to Regulatory Alert below)

The key elements of EPA's March 2012 proposal were:

Customize your Alerts

[Click here to add or delete alert profiles, customize your alerts to your region and choose a delivery schedule](#)

✓ Special Reports

- 전 세계의 복잡한 규정들에 대하여 주요한 이슈의 정보를 쉽게 이해할 수 있게 전문가의 분석 report 제공
- 원하는 Format으로 저장하여 활용 가능 (Word, PDF, Print)
- 연관 규정과 핵심 문서 Link 제공

EIATRACK: Special Report

Special Report European Union Dashboard

Published November 29, 2012

Product Stewardship Overview

These following Dashboards, last updated as of 26 November 2012, give an overview of the trends and developments on key issues related to batteries, energy efficiency, packaging and labeling, product take-back, restricted substances and transboundary waste shipments in the European Union.

Please click on the link below to access the Dashboards.

Key Documents:

European Union Dashboard - November 2012 [More info](#) | [Download](#)
Language: English

Special Report

European Union Dashboard

Published November 29, 2012

Product Stewardship Overview

These following Dashboards, last updated as of 26 November 2012, give an overview of the trends and developments on key issues related to batteries, energy efficiency, packaging and labeling, product take-back, restricted substances and transboundary waste shipments in the European Union.

Please click on the link below to access the Dashboards.

Key Documents:

European Union Dashboard - November 2012 [More info](#) | [Download](#)
Language: English
Document Type: Documents

No.1 - Reference Methods of Analysis For the Monitoring of Compliance of Certain RE
Language: English
Document Type: Documents

No.2 - RoHS-1 Exemptions [More info](#) | [Download](#)
Language: English
Document Type: Documents



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✓ Special Reports - Topic

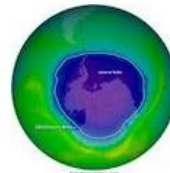
- EMC(ElectroMagnetic Compatibility: 전자 환경 적합성)
- Product Safety and CE Marking(제품안전 및 유럽공동체 저전압 지침)
- Batteries(건전지)
- Design for Environment(환경친화 제품 설계)
- Electrical Safety(전기 안전)
- Energy Efficiency(에너지 효율)
- Hazardous Waste(유해 폐기물)
- Medical Devices(의료 장비)
- Packaging and Labeling(포장재와 라벨링)
- Product Take-Back(제품 반품)
- Transboundary Waste Shipment(국가적 폐기물 수송)



✓ Special Reports – 제한 물질

31 Substance


- Aliphatic hydrocarbons
- Arsenic compounds (비소)
- Asbestos compounds (석면)
- Azo dyes
- Benzene and Toluene (벤젠, 톨루엔)
- Cadmium compounds
- Chromium compounds (크롬)
- Dioxins and Furans (다이옥신, 푸란)
- Dispers dyes
- F-gases (프레온가스)
- Flame retardants compounds
- Formaldehyde (포름알데히드)
- Lead compounds (납)
- Mercury compounds(수은)
- Nickel compounds
- Organotic compounds
- Ozone depleting BCMs
- Ozone depleting CFCs
- Ozone depleting HBFCs
- Ozone depleting HCFCs
- Ozone depleting methyl bromide
- Ozone depleting solvents
- PCBs, PCTs and PCNs
- PCT, its salts and ethers
- Pesticide compounds
- PFOs
- Phthalates
- PVC
- Triclosan
- Ugilec 121, 141and DBBT
- Vinyl monomer



- 모든 자료들은 전 세계의 환경정책과 과학분야의 **법률 규정에 능통한 전문가들에 의해 감수**

-  : 1974년 미국 워싱턴에 설립된 환경 전문 법률회사.

- **Holland & Knight** : 100년의 역사를 자랑하는 세계30위의 법률회사.

-  : 전세계 80여개국 850여명의 전문 변호사를 거느린
세계37위의 법률회사

✓ Experts Q & A

- 전 세계의 전문가들에게 직접 문의하고 답변 확인 가능
- Q & A 항목을 통해 전 세계의 사용자들의 문의 사항과 답변 모두 확인 가능

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Questions & Answers

The IHS EIATRACK Questions & Answers facility allows subscribers to submit questions about regulations that are currently supported within IHS EIATRACK to regulatory experts from around the world, and to review previous questions and answers. Submit your question [here](#).

Sample Question

Q: Is it necessary to mark consumables of EEE with the dustbin, to be compliant with WEEE 2002/96/EC?

A: The marking requirement under Article 10(3) of the WEEE Directive applies to EEE. EEE, in turn, is defined in Article 3(a) with reference to (i) dependence on electric current or electromagnetic fields to work properly and (ii) the Annex 1A categories. Consumables do not necessarily meet the test under (i), nor are they likely to fall under any Annex 1A category. If that is the case with respect a particular consumable, it is not subject to the marking requirement.

Answered May 28, 2012

Recently Answered Questions

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Ask a Regulatory Question of an IHS EIATRACK Expert

Ask a Question

Subscribers can use the form below to submit questions about regulations that are currently supported within IHS EIATRACK to regulatory experts from around the world. Reasonable efforts will be made to answer valid questions in a timely manner based on available information. See IHS EIATRACK [Question Guidelines](#) for more information.

To ask a question, enter the relevant details using the form below then select submit.

Name:

Email:

Question:

Recently Answered Questions

Q: South Korea - Packaging and Labeling
I have been told by a customer of ours that we will need to add the LDPE recycle label/triangle to our product packaging since we use plastic to wrap the product inside the box. Where can I find this ...
Answered May 22, 2012

Q: Sweden - Restricted Substances Overview
Do you have an english version of Sweden - PM3-12 Kemiska amnen i elektroniska komponenter 1 available?
Answered May 22, 2012

Q: European Union - Restricted Substances Overview
I understand that Directive 2011/65/EU is to be identified in existing CE documents for RoHS compliant product.
Question:
If a product that is non-RoHS compliant of Category 9, which is exem...
Answered May 18, 2012

Q: Other than the UK, do other EU jurisdictions provide information on RoHS enforcement actions undertaken? Where can these details be found? Thank you.
Answered May 08, 2012

✓ MYEIATRACK

- User들과 정보 공유 가능

Library, Calendar, Task 등 기능 활용 하여 Document, Report, Alert 정보 공유 가능

- 개인 계정을 통한 Alert 설정 기능 제공



✓ Webinars

- 전문가들에 의한 Archived Webcasts와 Live Webcast 제공

Evolving International Waste Shipment Regimes



- The Basel Convention (global)
- OECD Council Decision C(2001)107/Final
 - OECD Expansion (e.g., Chile, Israel)
- Other "Article 11" Agreements
- EU Waste Shipments Regulation
 - Regulation (EC No. 1013/2006) effective July 1, 2007
 - EU Correspondents' Guidelines on Shipments of WEEE
 - EU WEEE Directive Recast

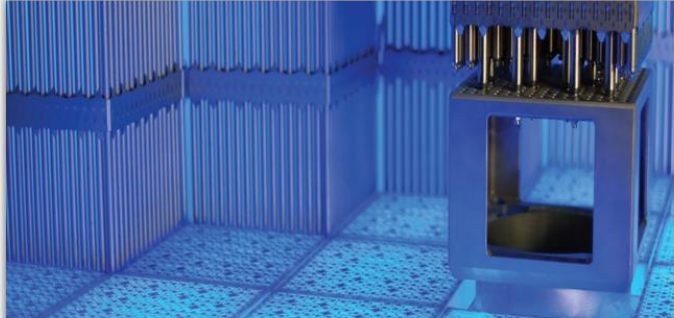


8

Nuclear Design Methods

+ Show details

VOTE RATE THIS





Nuclear Design Methods


Francesca Iudicello
Head of Fluid Mechanics, Internal Flow
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Channel Channel profile


IHS Webcasts

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Seminario Exclusivo: Código ASME para Calderas y Recipientes
Jun 6 2013 | 77 mins
- 

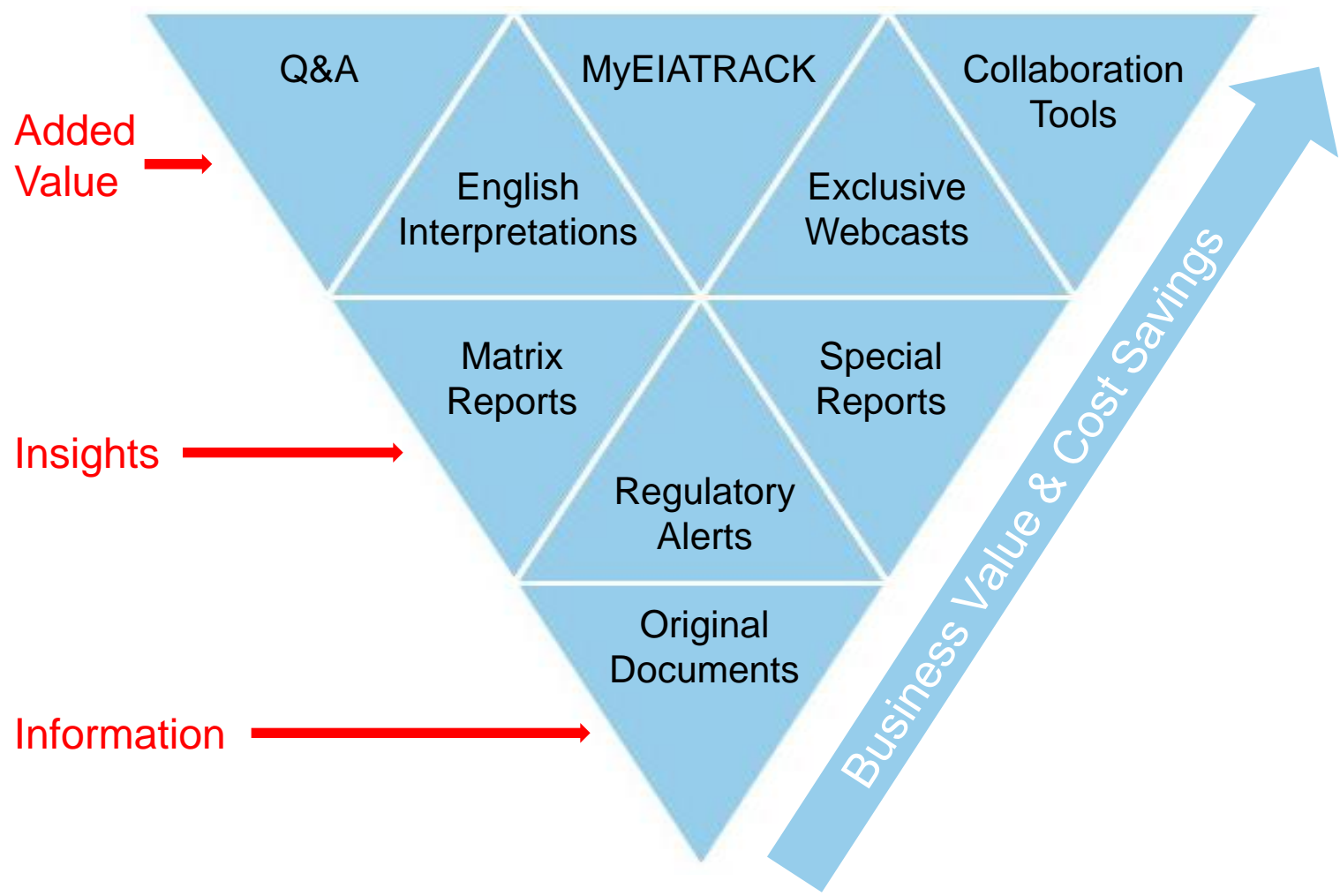
The 2013 ASME Boiler & Pressure Vessel Code: Key Highlights
Mar 28 2013 | 76 mins
- 

The 2013 ASME Boiler & Pressure Vessel Code: Exclusive Preview
Jan 17 2013 | 76 mins
- 

Setting a New Standard for Quality in Nuclear Power One Year after
Mar 30 2012 | 69 mins
- 

Optimal Design and Analysis of Lugs
Feb 2 2012 | 40 mins

Summary



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Q & A

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